

FIG. 1



Figure 13 shows a 6x6 grid of colored squares. The grid is labeled 130. The columns are labeled 132, 134, 136, 138, 140, and 142. The rows are labeled 144, 146, 148, 150, 152, and 154. The grid contains the following sequence of colors (R for Red, G for Green, B for Blue) in each row:

- Row 144: R, G, R, G, R, G
- Row 146: G, B, G, B, G, B
- Row 148: R, G, R, G, R, G
- Row 150: G, B, G, B, G, B
- Row 152: R, G, R, G, R, G
- Row 154: G, B, G, B, G, B

FIG. 3

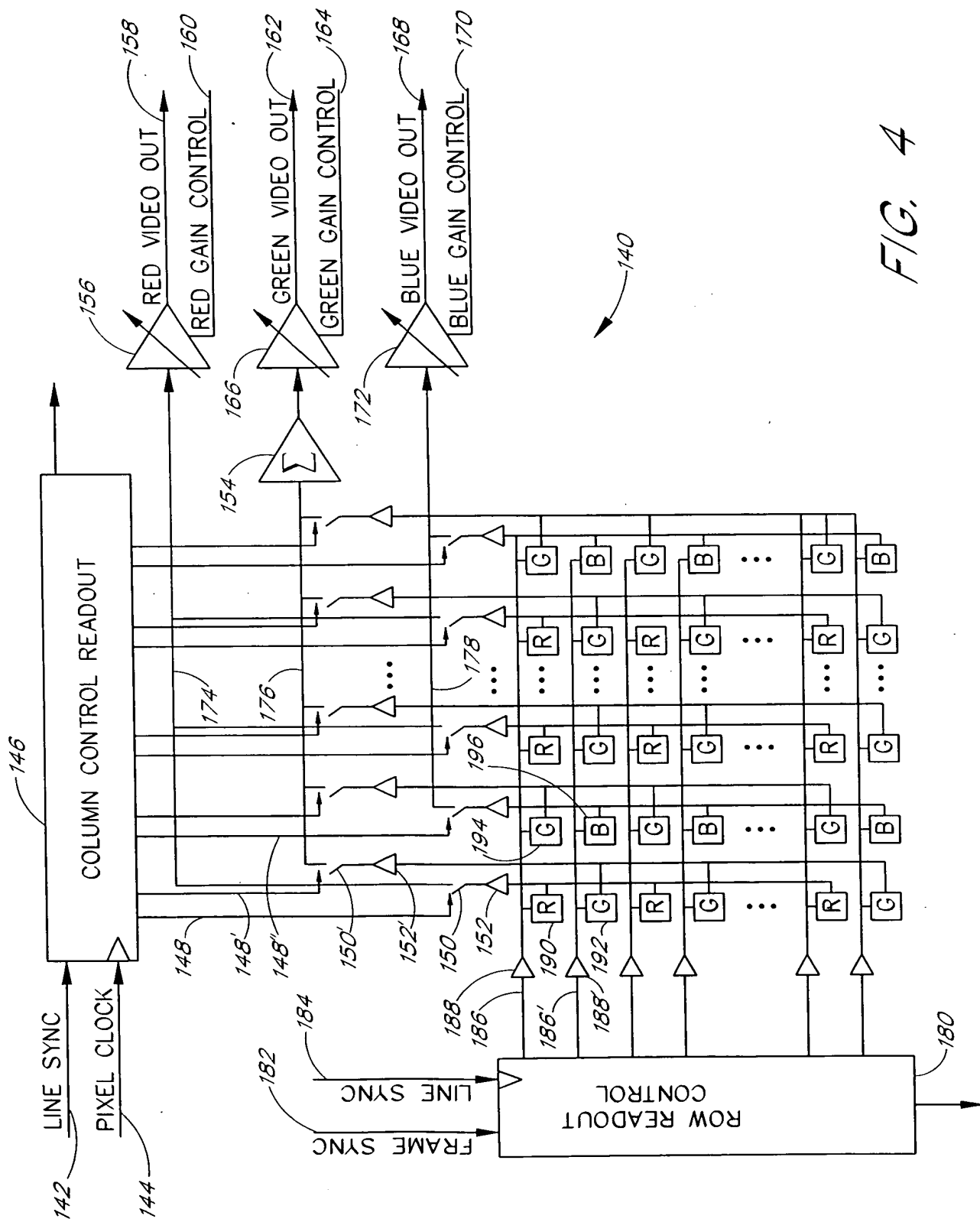


FIG. 4


```

graph TD
    202[READ 2x2 PIXEL BLOCK:  
[RG  
GB] OR [GR  
BG] OR [GB  
RG] OR [BG  
GR]] --> 204
    subgraph 203 [ ]
        204([AMPLIFY & OUTPUT  
RED VALUE]) --> 206([SUM TWO GREEN PIXELS])
        206 --> 208([AMPLIFY & OUTPUT  
GREEN VALUE])
        208 --> 210([AMPLIFY & OUTPUT  
BLUE VALUE])
    end
    210 --> 212[ADVANCE TO NEXT COLUMN:  
COLUMN=COLUMN+1]
    212 --> 214{EXCEEDING LAST RED  
PIXEL IN A ROW  
?}
    214 -- NO --> 202
    214 -- YES --> 216[ADVANCE TO NEXT ROW:  
ROW=ROW+1]
    216 --> 218{EXCEEDING LAST ROW  
WITH RED IN A FRAME  
?}
    218 -- NO --> 202
    218 -- YES --> 220[/STOP/]

```

FIG. 6

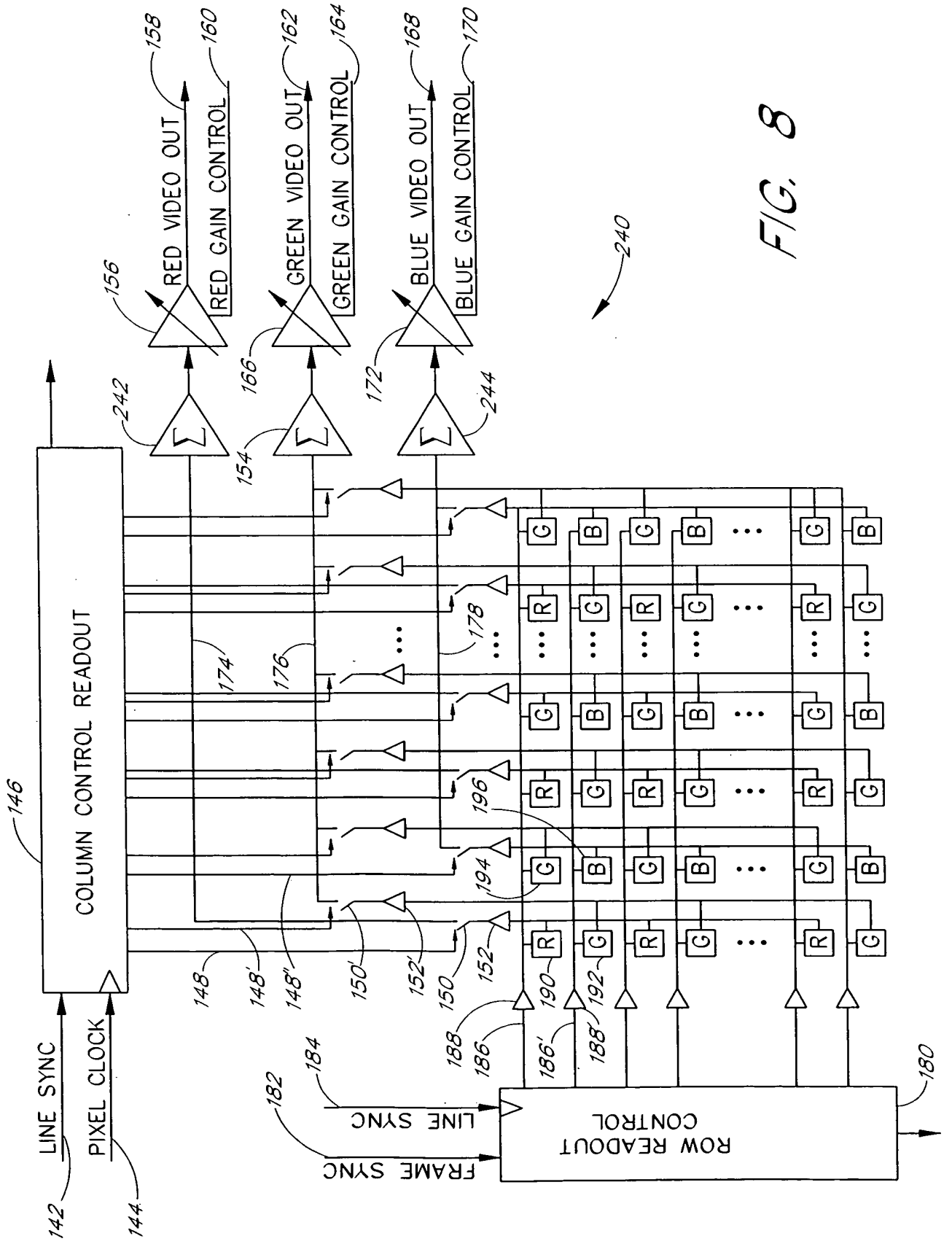


FIG. 8


```

graph TD
    250[READ 4x4 PIXEL BLOCK:  
R G R G  
G B G B  
R G R G  
G B G B] --> 252
    subgraph 253 [ ]
        252([SUM 4 RED PIXELS]) --> 254([AMPLIFY & OUTPUT  
RED VALUE])
        254 --> 256([SUM 8 GREEN PIXELS])
        256 --> 258([AMPLIFY & OUTPUT  
GREEN VALUE])
        258 --> 260([SUM 4 BLUE PIXELS])
        260 --> 262([AMPLIFY & OUTPUT  
BLUE VALUE])
    end
    262 --> 264[ADVANCE TO NEXT 4x4 BLOCK  
HORIZONTALLY:  
COLUMN=COLUMN+4]
    264 --> 266{EXCEEDING LAST 4x4  
BLOCK IN A ROW  
?}
    266 -- NO --> 250
    266 -- YES --> 268[ADVANCE TO NEXT 4x4 BLOCK  
VERTICALLY:  
ROW=ROW+4]
    268 --> 270{EXCEEDING LAST 4x4  
BLOCK IN A FRAME  
?}
    270 -- NO --> 250
    270 -- YES --> 272[/STOP/]

```

FIG. 9

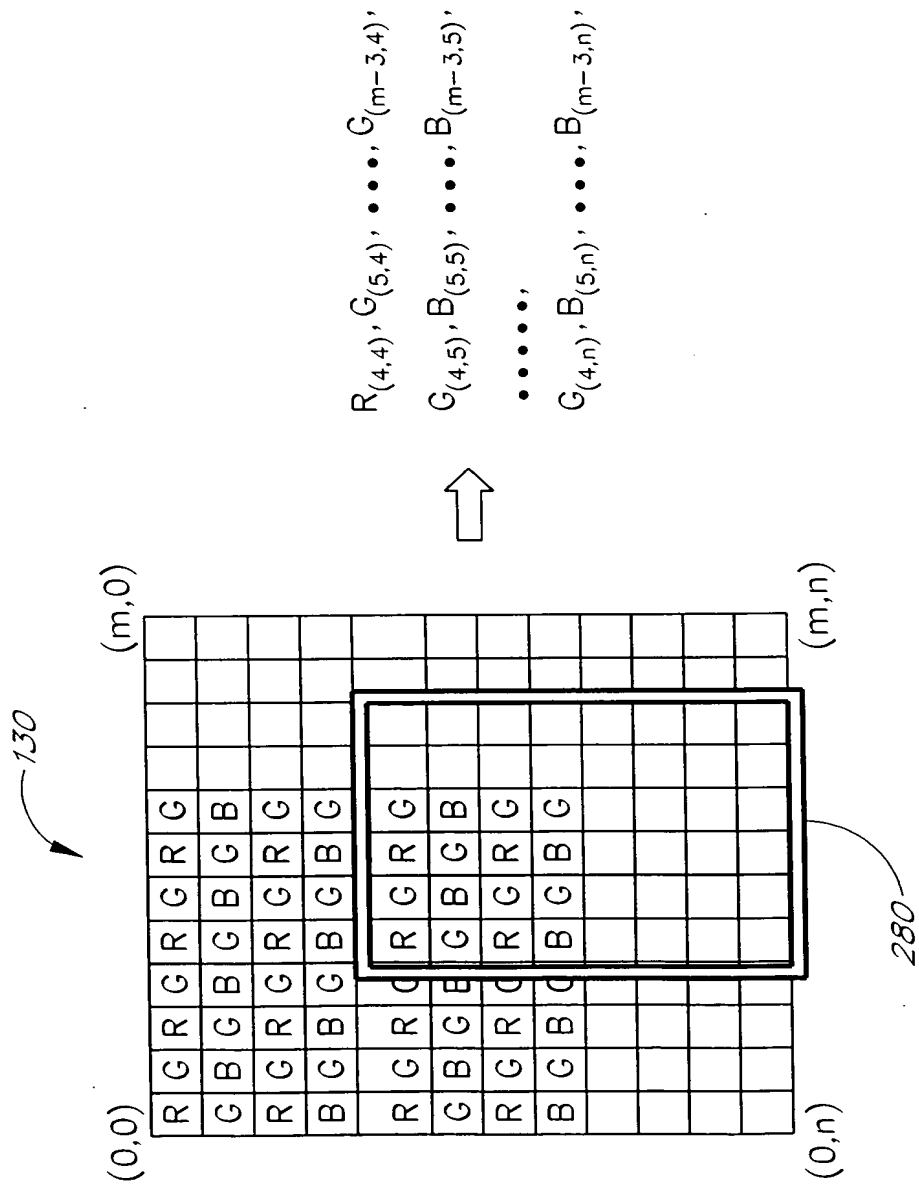


FIG. 10

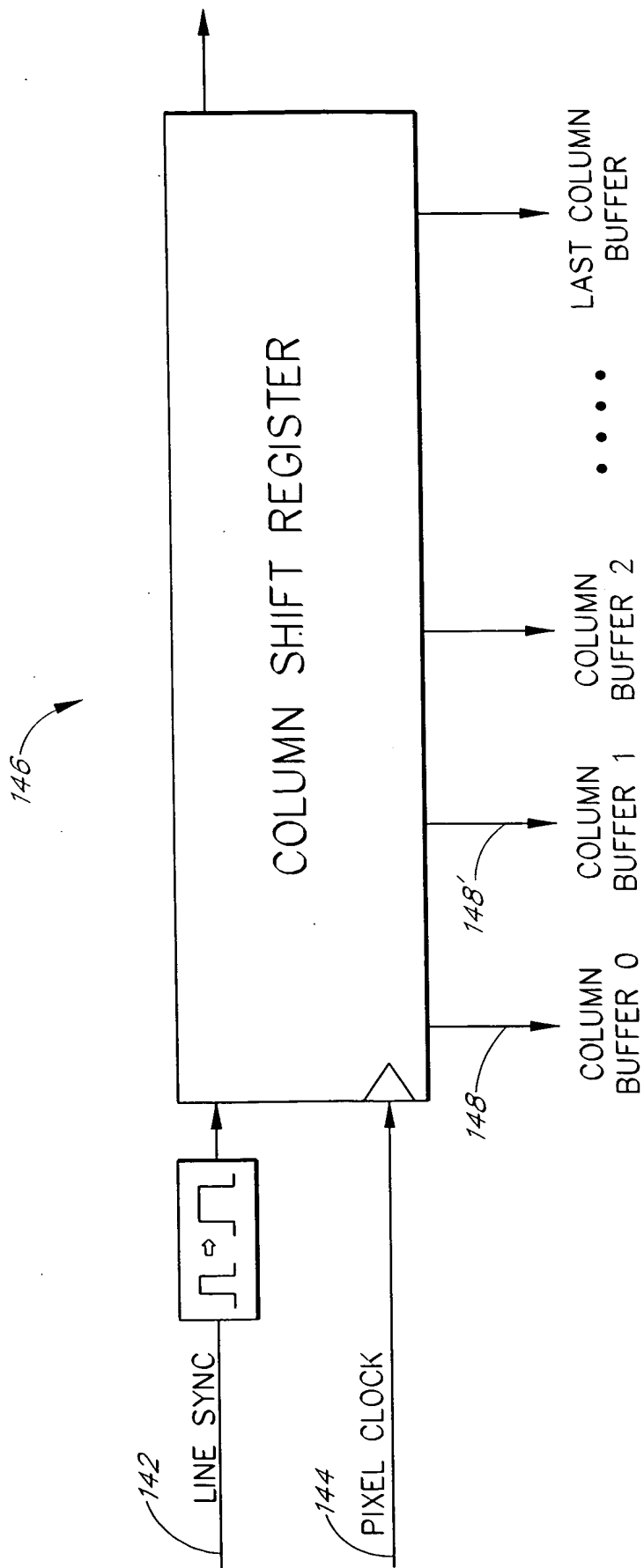


FIG. 11

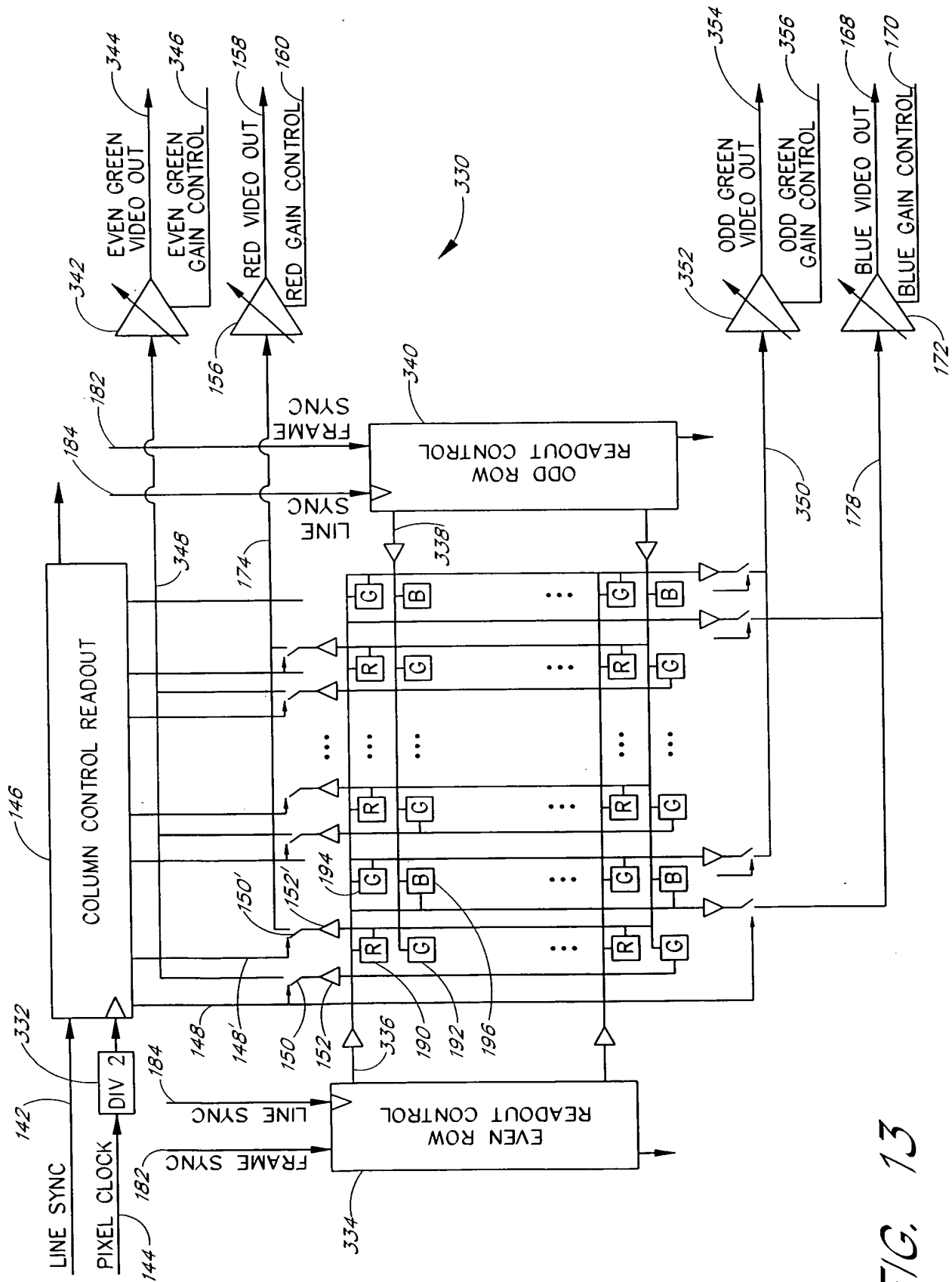


FIG. 13

002020 1 065450

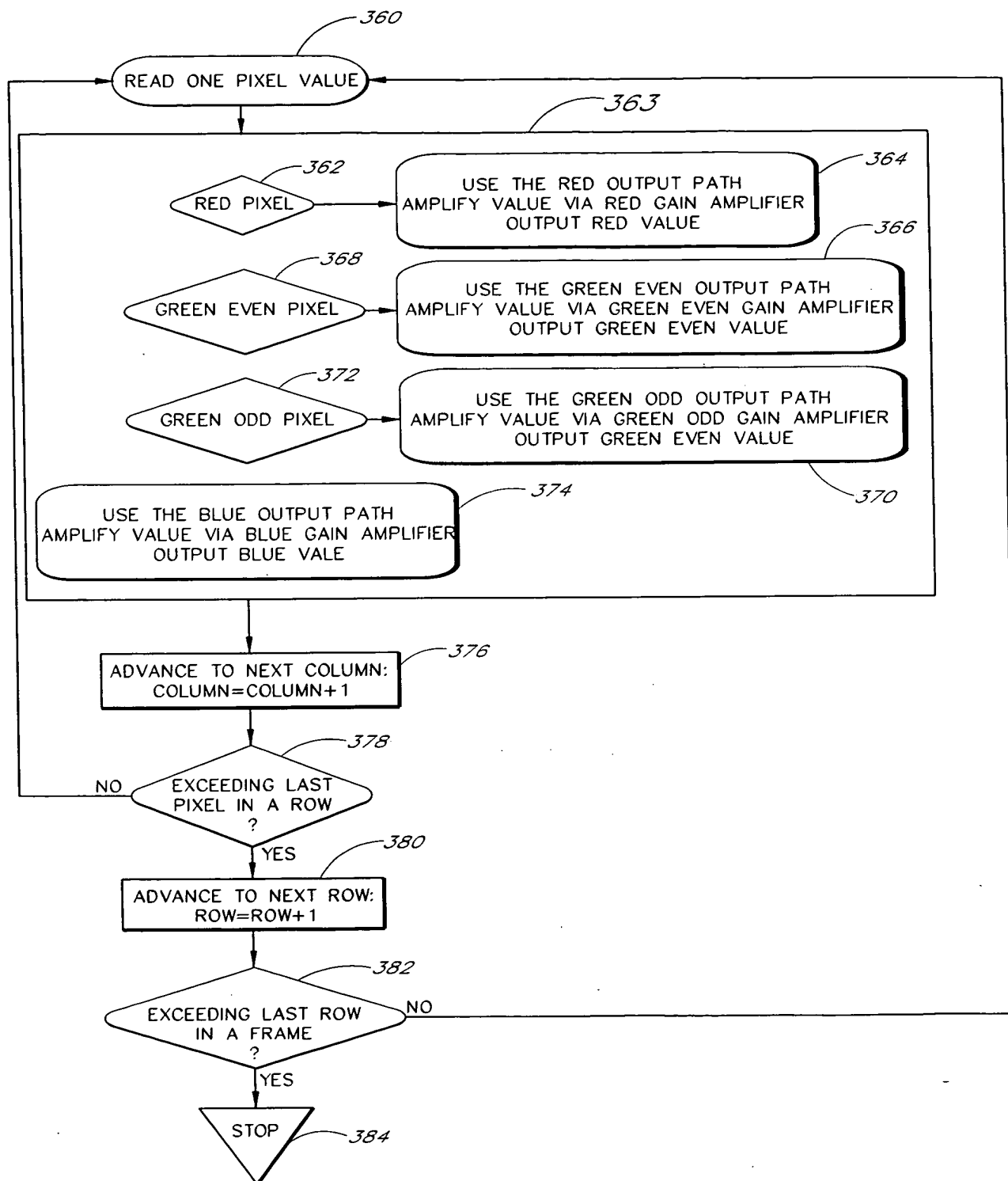


FIG. 14

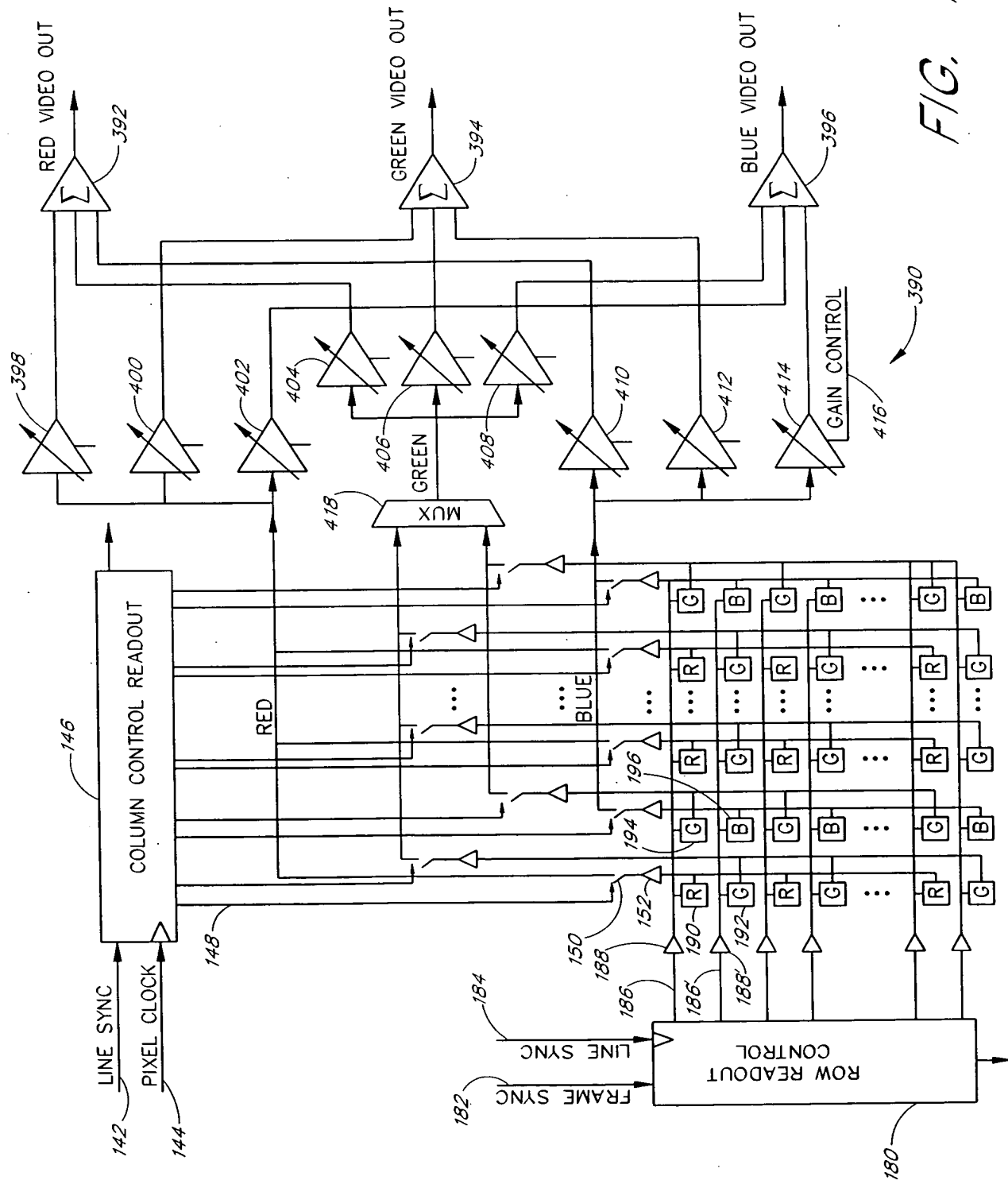


FIG. 15

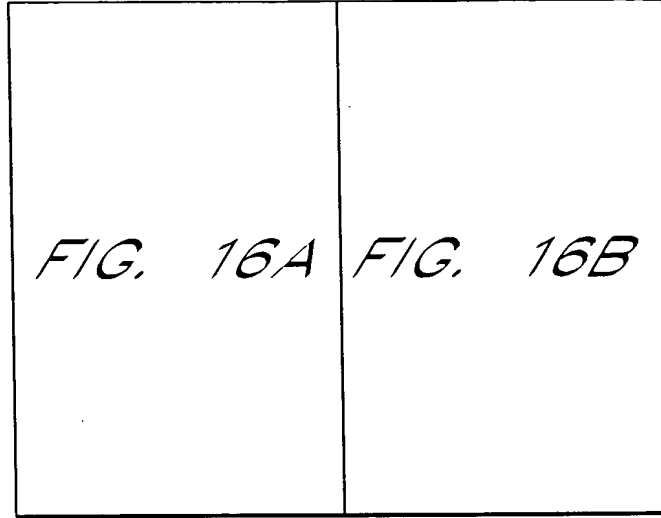


FIG. 16

09495971.020200

- 420



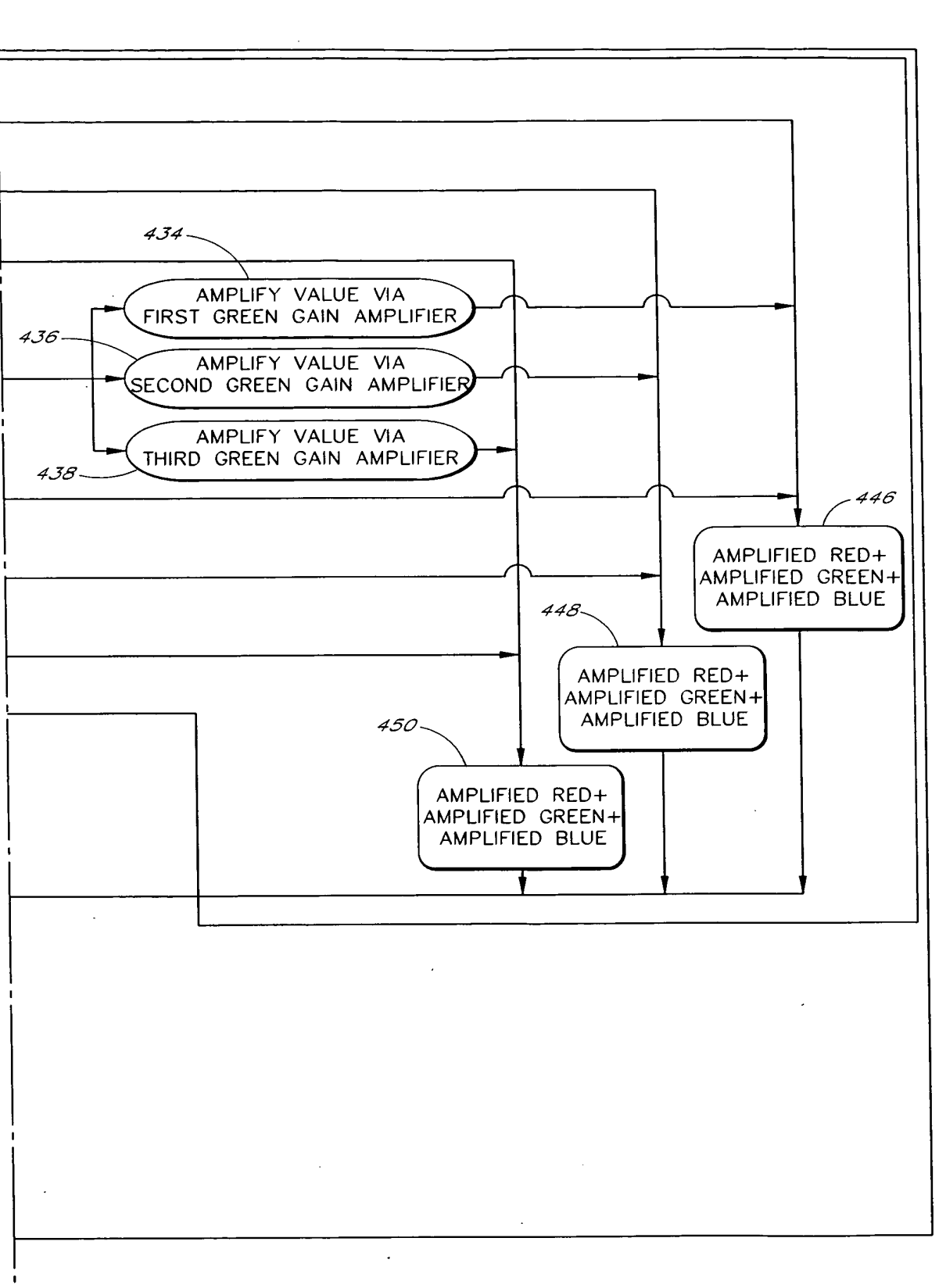


FIG. 16B

002020 T 2656460

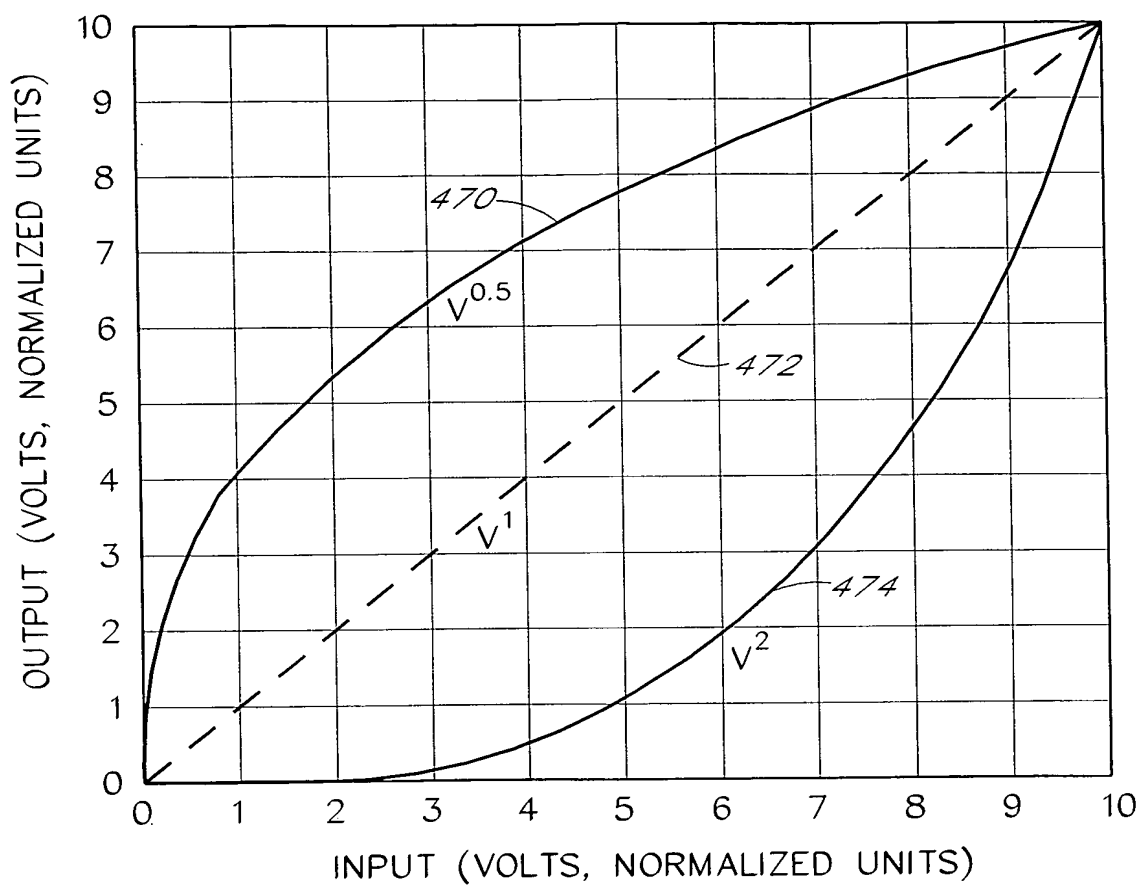


FIG. 17

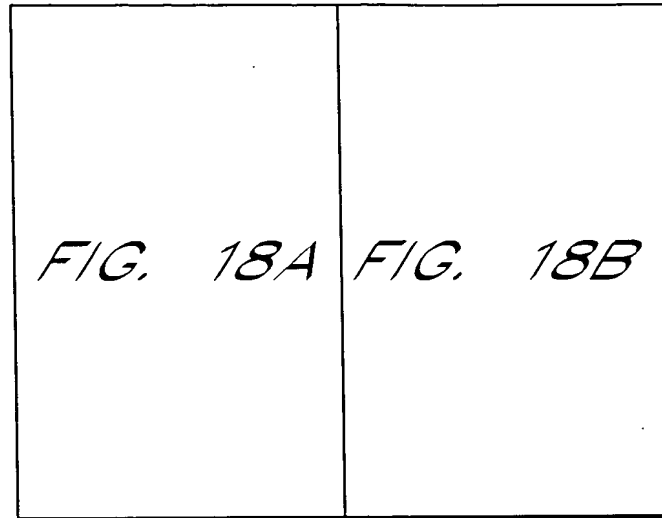
[illegible]

FIG. 18

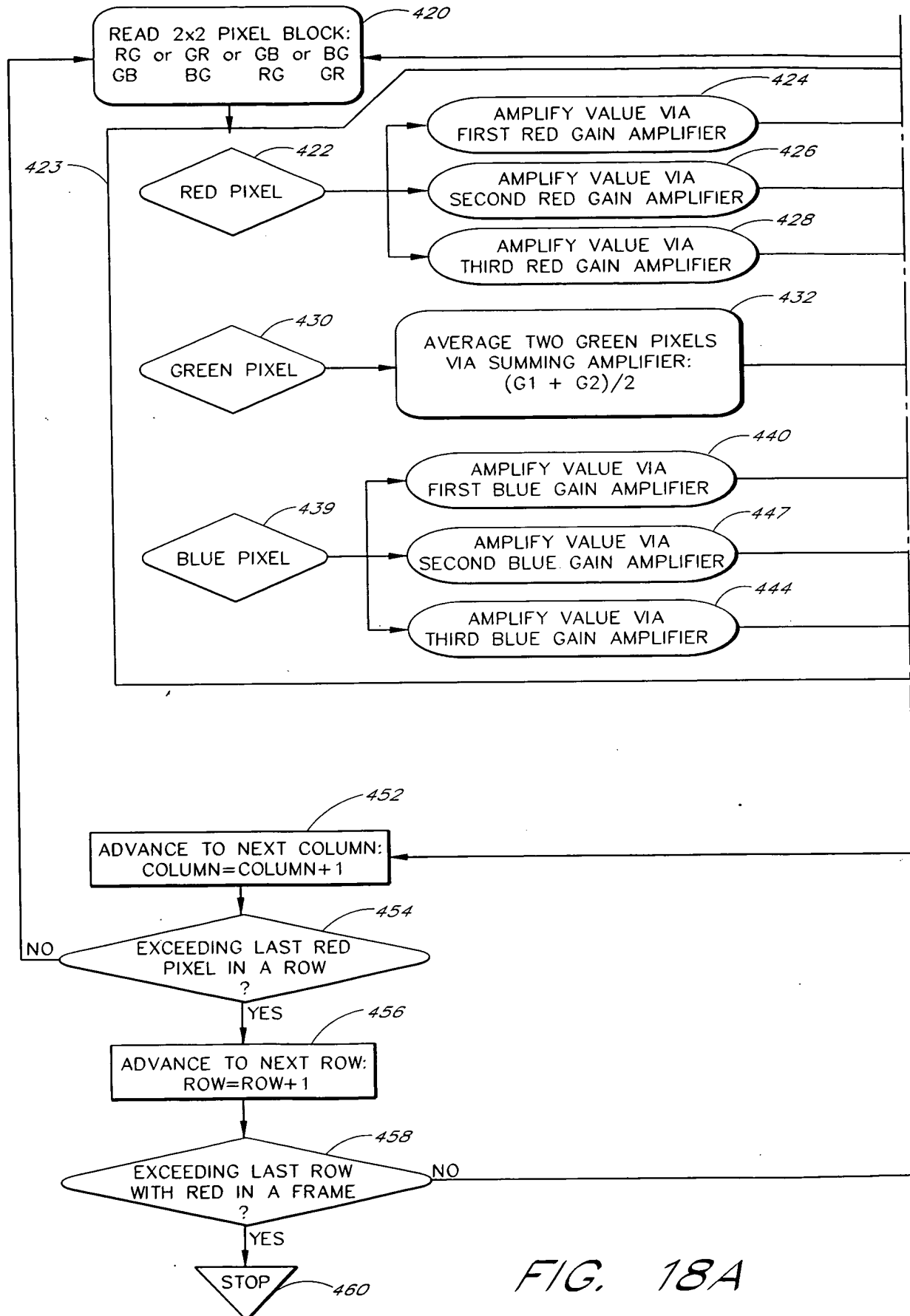


FIG. 18A

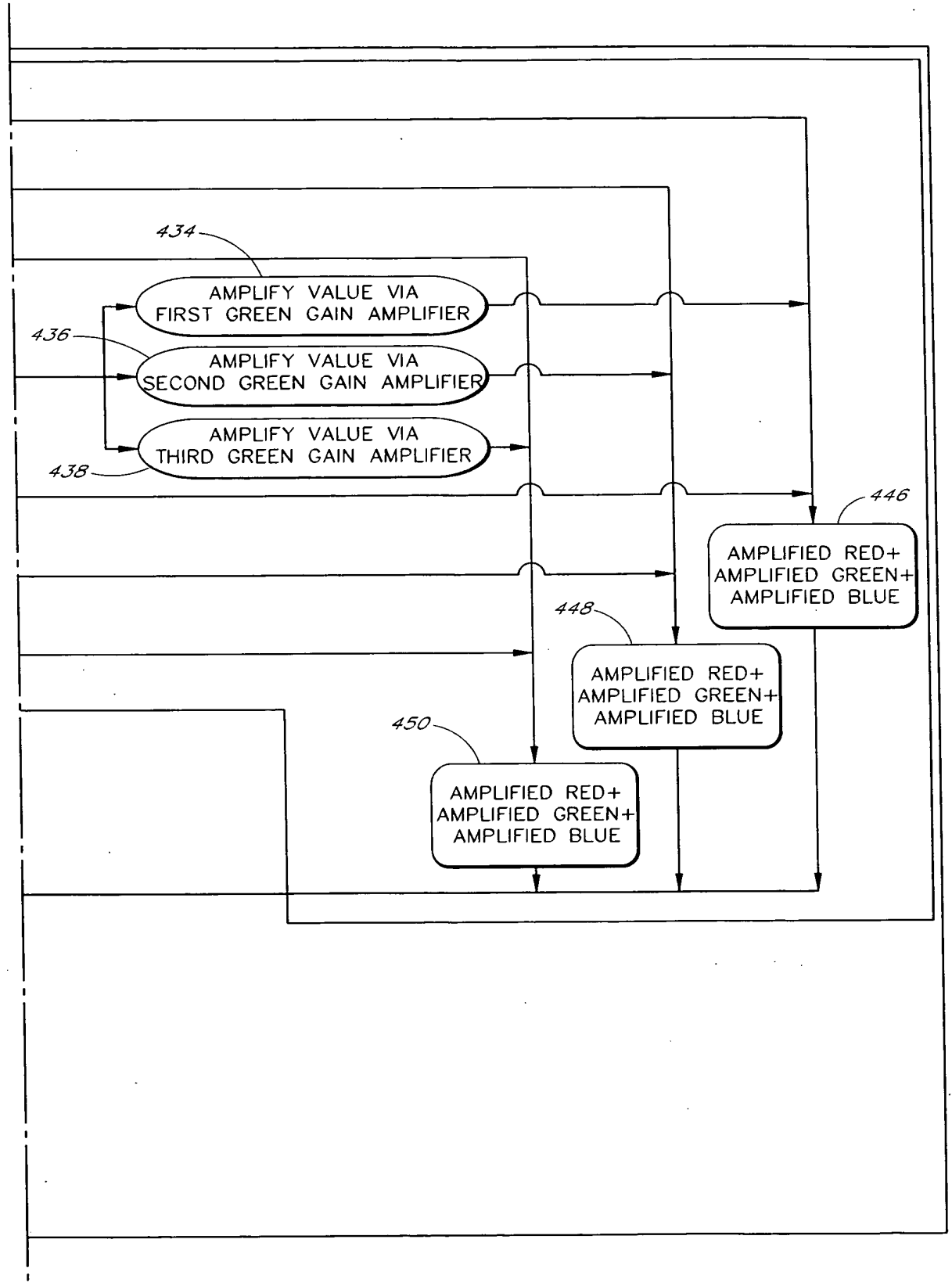
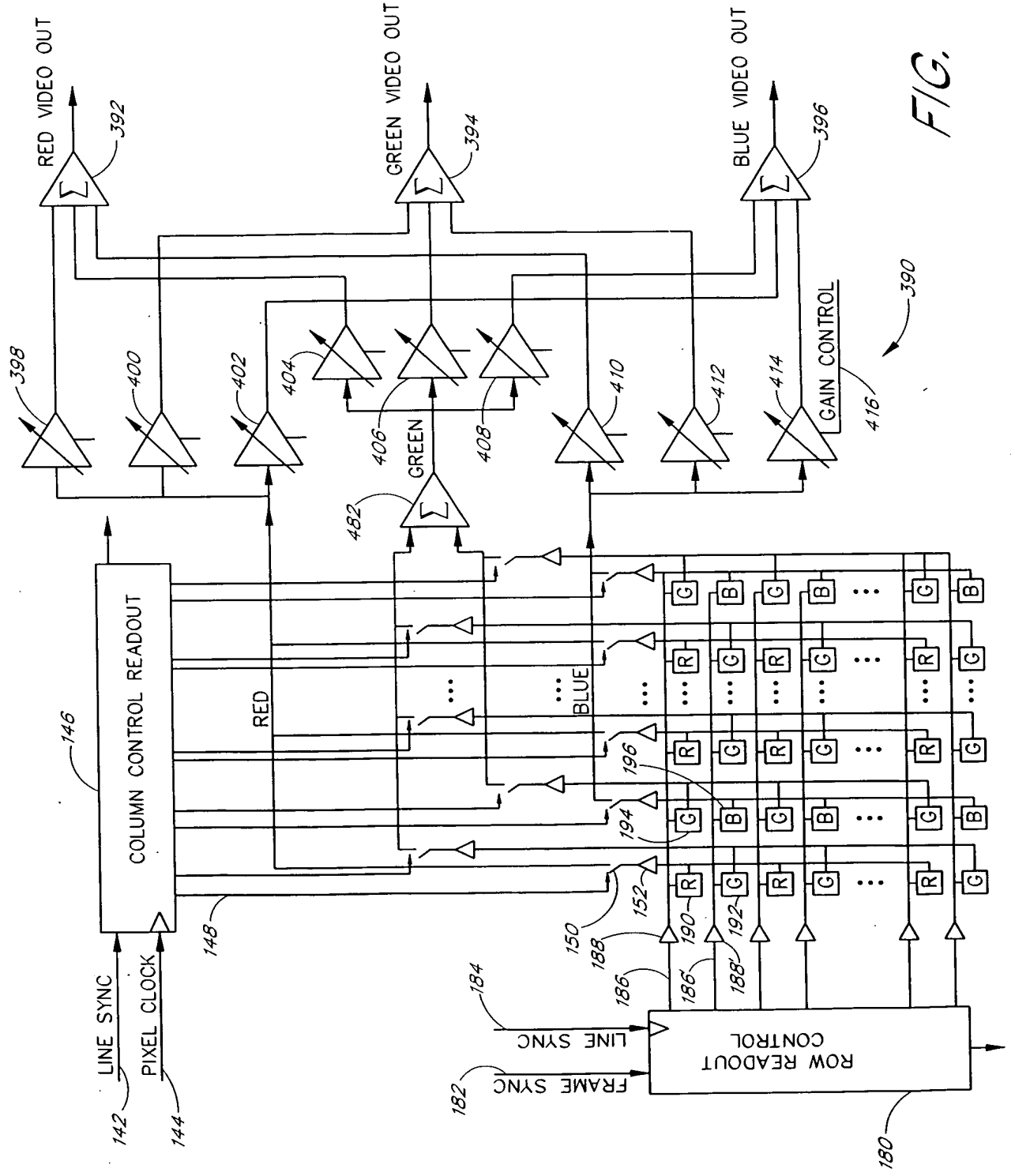


FIG. 18B



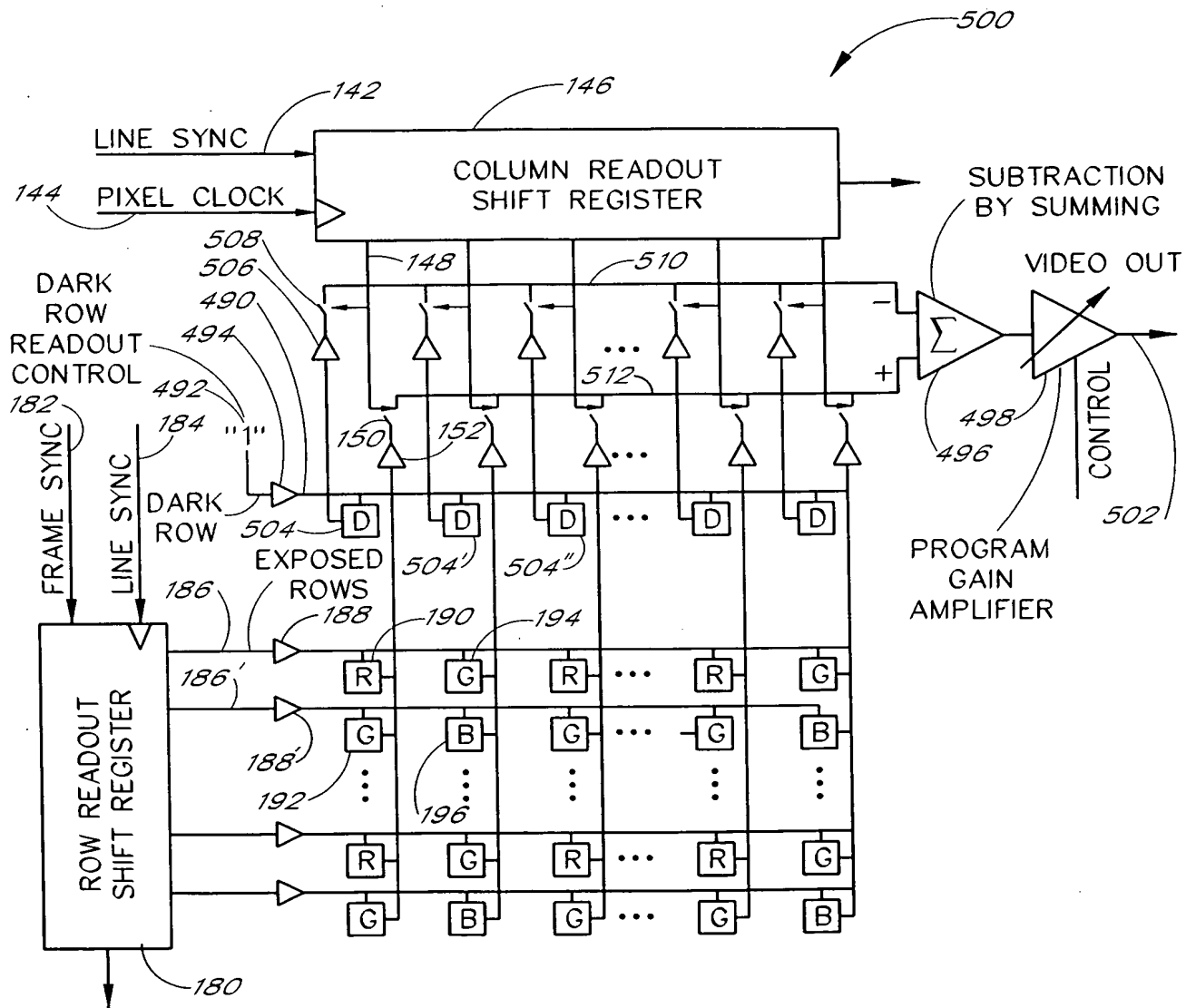


FIG. 20

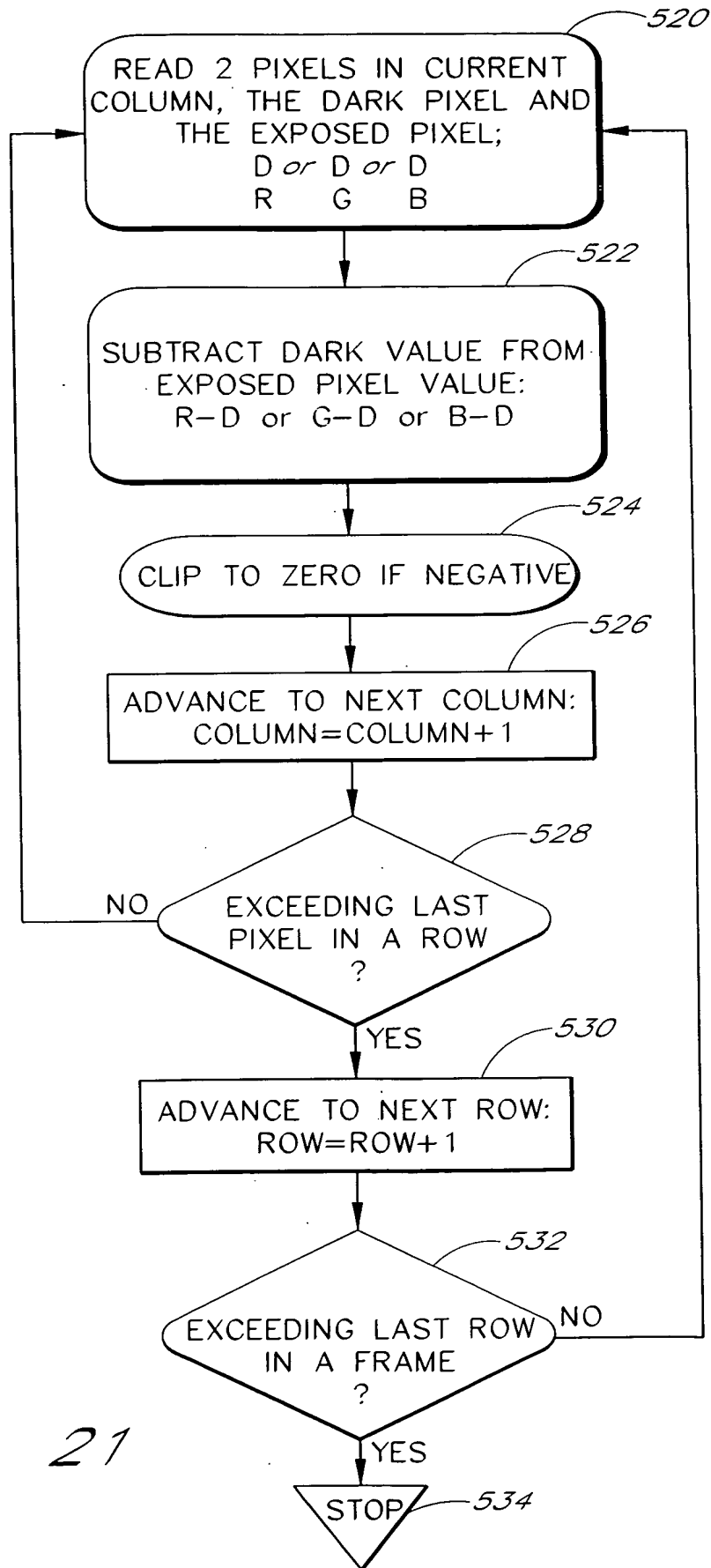


FIG. 21

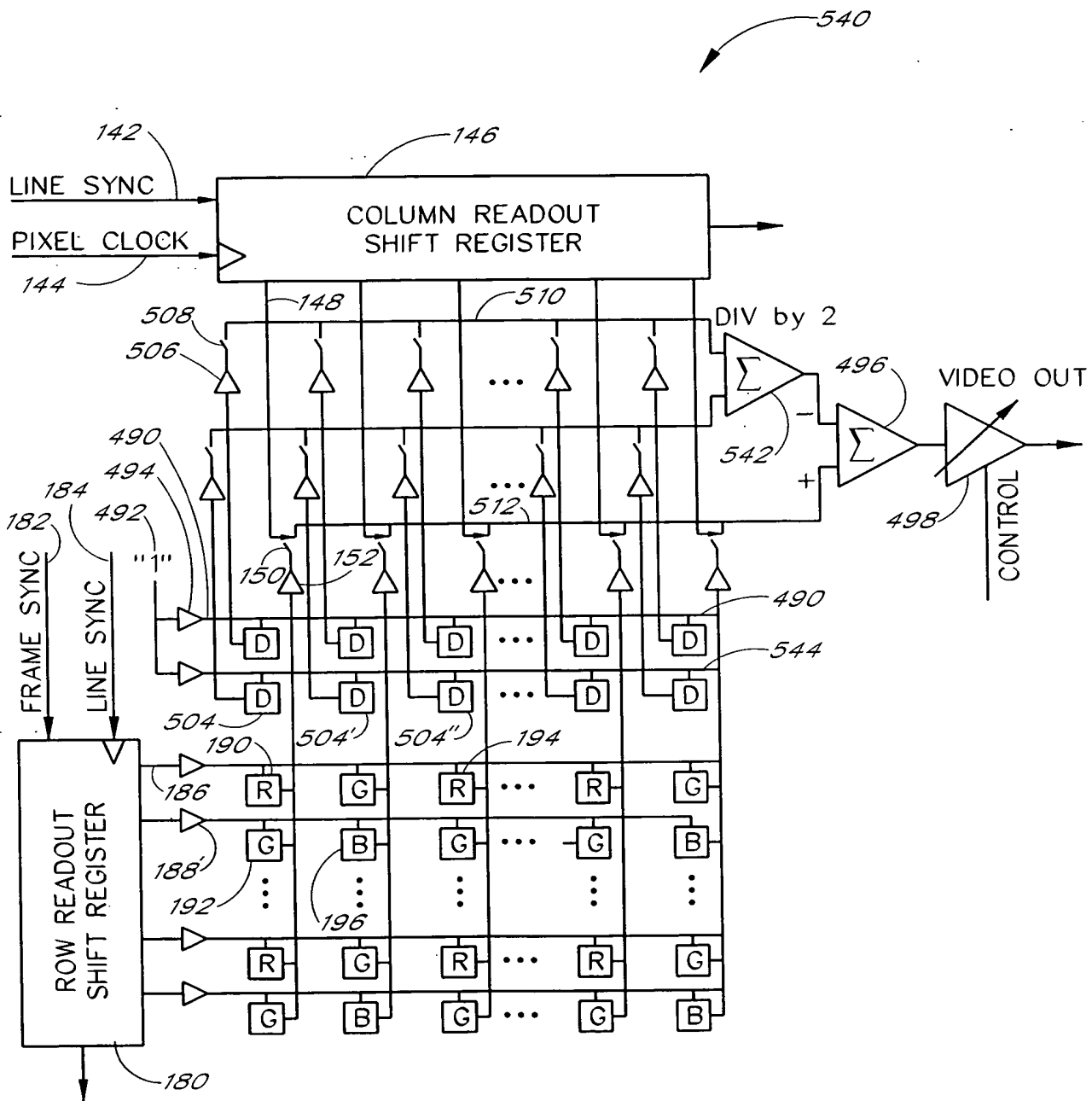


FIG. 22

```
graph TD
    550[READ 3 PIXELS IN CURRENT COLUMN, 2 DARK PIXELS AND THE EXPOSED PIXEL:  
D1 D1 D1  
D2 D2 D2  
R G B] --> 552[AVERAGE TWO DARK PIXELS:  
AD=(D1+D2)/2]
    552 --> 554[SUBTRACT AVERAGE DARK VALUE FROM EXPOSED PIXEL VALUE:  
R-AD or G-AD or B-AD]
    554 --> 556[CLIP TO ZERO IF NEGATIVE]
    556 --> 558[ADVANCE TO NEXT COLUMN:  
COLUMN=COLUMN+1]
    558 --> 560{EXCEEDING LAST PIXEL IN A ROW?}
    560 -- NO --> 550
    560 -- YES --> 562[ADVANCE TO NEXT ROW:  
ROW=ROW+1]
    562 --> 564{EXCEEDING LAST ROW IN A FRAME?}
    564 -- NO --> 550
    564 -- YES --> 566[/STOP/]
    style 550 fill:#fff,stroke:#000,stroke-width:1px
    style 552 fill:#fff,stroke:#000,stroke-width:1px
    style 554 fill:#fff,stroke:#000,stroke-width:1px
    style 556 fill:#fff,stroke:#000,stroke-width:1px
    style 558 fill:#fff,stroke:#000,stroke-width:1px
    style 560 fill:#fff,stroke:#000,stroke-width:1px
    style 562 fill:#fff,stroke:#000,stroke-width:1px
    style 564 fill:#fff,stroke:#000,stroke-width:1px
    style 566 fill:#fff,stroke:#000,stroke-width:1px
```

FIG. 23

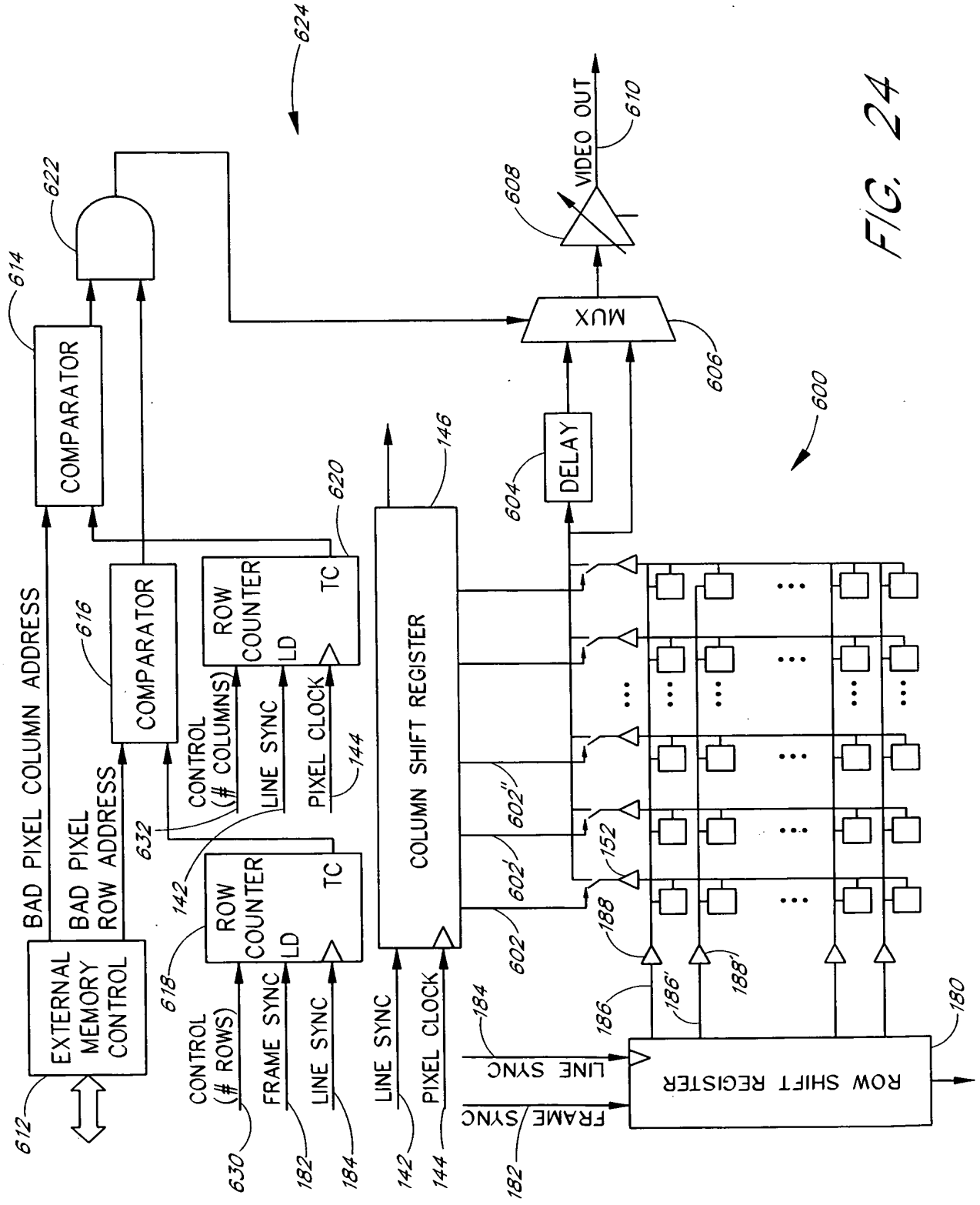


FIG. 24

09495971.020200

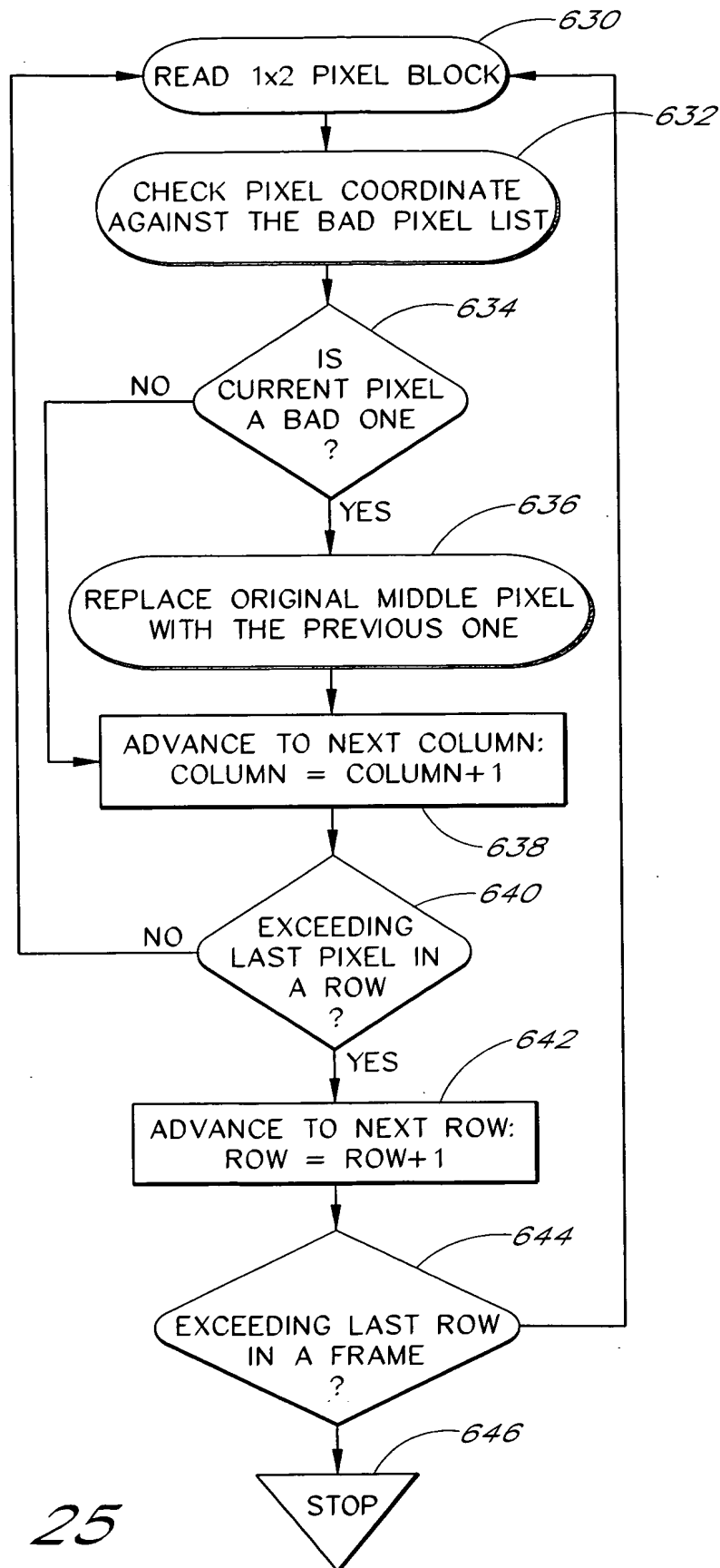


FIG. 25